PATENT COOPERATION TREATY

PCT

REC'D 28 SEP 2004

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Rec'd PCT/PTO 04 DEC 2004

Appl	icant's	or ag	ent's file reference		See Notification of Transmittal of International				
SMR/P550620PC				FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/41					
International application No.			lication No.	International filing date (day/mon	thlyear) Priority date (day/monthlyear)				
PCT/GB 03/02551				13.06.2003	13.06.2002				
	International Patent Classification (IPC) or both national classification and IPC								
DOE	SN7/0	Ю	•						
Applicant									
MIL	MILLIKEN INDUSTRIALS LIMITED et al.								
1.	 This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36. 								
	Auu	lority		applicant according to Article S					
2.	This	REP	ORT consists of a total o	of 5 sheets, including this cover	r sheet.				
		This	report is also accompar	nied by ANNEXES, i.e. sheets o	of the description, claims and/or drawings which have				
		bee	n amended and are the b	basis for this report and/or sheen 607 of the Administrative Instr	ts containing rectifications made before this Authority				
	The		nexes consist of a total o		actions under the FCF).				
	1116	SC all	iekes consist of a total o	or streets.					
3.	This	repoi	t contains indications rel	lating to the following items:					
	1	\boxtimes	Basis of the opinion						
	H		Priority						
	111		Non-establishment of o	opinion with regard to novelty, in	nventive step and industrial applicability				
	IV		Lack of unity of invention						
	V	\boxtimes	Reasoned statement un citations and explanation	inder Rule 66.2(a)(ii) with regard ons supporting such statement	d to novelty, inventive step or industrial applicability;				
	VI		Certain documents cite	,, -					
	VII		Certain defects in the ir	nternational application					
	VIII		Certain observations or	n the international application					
				,					
Date	of sub	missio	n of the demand	Date of	completion of this report				
09.01.2004				07.00	0004				
00.01.2004				27.09.	2004				
Name	and i	nailing	address of the internationa	al Authoriz	ed Officer				
preliminary examining authority: European Patent Office									
D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu c				Pamie	s Olle, S				
	<u> </u>	Fax	: +49 89 2399 - 4465		ne No. +49 89 2399-6055				

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/GB 03/02551

 Basis of the report 	I.	Basis	of the	report
---	----	-------	--------	--------

 With regard to the elements of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Description, Pages									
	1-1	0	as originally filed							
	Cla	Claims, Numbers								
	1-2	28	received on 27.07.2004 with letter of 27.07.2004							
	Dra	awings, Sheets								
	1/4	-4/4	as originally filed							
2.	Wit lan	h regard to the langu guage in which the in	age, all the elements marked above were available or furnished to this Authority in the ternational application was filed, unless otherwise indicated under this item.							
	The	ese elements were av	vailable or furnished to this Authority in the following language: , which is:							
		the language of a tr	anslation furnished for the purposes of the international search (under Rule 23.1(b)).							
			lication of the international application (under Rule 48.3(b)).							
			anslation furnished for the purposes of international preliminary examination (under							
3.	Wit inte	h regard to any nucle rnational preliminary	eotide and/or amino acid sequence disclosed in the international application, the examination was carried out on the basis of the sequence listing:							
		contained in the inte	rnational application in written form.							
		filed together with the international application in computer readable form.								
		\square furnished subsequently to this Authority in written form.								
		furnished subsequer	ntly to this Authority in computer readable form.							
		The statement that the subsequently furnished written sequence listing does not go beyond the disclos in the international application as filed has been furnished.								
		The statement that t listing has been furn	he information recorded in computer readable form is identical to the written sequence ished.							
4.	The	amendments have re	esulted in the cancellation of:							
		the description,	pages:							
		the claims,	Nos.:							
		the drawings,	sheets:							

INTERNATIONAL PRELIMINARY **EXAMINATION REPORT**

International application No.

PCT/GB 03/02551

5. 🗆	This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).
	, , , , , , , , , , , , , , , , , , , ,

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this

6. Additional observations, if necessary:

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

No:

Yes: Claims Claims 1-28

Inventive step (IS)

Yes: Claims

1-28

No: Claims

Industrial applicability (IA)

Yes: Claims No:

Claims

1-28

2. Citations and explanations

see separate sheet



1. Novelty

D1 discloses a floor covering, which can be in the form of a tile comprising a textile surface and an elastomer backing including elastomer granules (crumbs) and binder. Voids are present between the elastomer granules (see claims 1-3 and page 7, last paragraph).

D2 relates to a floor covering (also as a tile) having a textile surface layer and a backing comprising rubber particles (crumbs) and a binder. This backing has also voids (see claims 1-3, 5 and 9; page 5, lines 1-16; page 5, lines 55-61; figure 5; page 5, line 122 - page 6, line 8).

D3 refers to a rug underlay comprising a textile surface and a backing of rubber particles and a binder. Voids are also present in the backing (see claims 1 and 6; figure 3; example 2).

D4 discloses a carpet tile having a textile surface layer and a backing comprising rubber chips and a PU binder. This backing has voids (see abstract).

D5 relates to an artificial lawn of definite size comprising a textile surface layer and a backing composed of rubber chips and a PU binder. Gaps are present in the backing between the bonded chips (see abstract).

US-A-5170526 (hereinafter D6) relates to a mat having a pile fibre upper surface and a solid rubber or rubber-like backing, which extends beyond the periphery of the textile surface forming a border portion around the whole mat (see figures and column 1, lines 46-54).

These documents however do not disclose a mat as claimed. Therefore claims 1-28 are novel and meet the requirements of Article 33(2) PCT.

2. **Inventive Step**

2.1 D6 is regarded as being the closest prior art to the subject-matter of claim 1. The subject-matter of claim 1 therefore differs from this known D6 in that the backing employed includes elastomer crumbs, binder and voids between the crumbs and has a density of 0.5 - 0.9 g/cm³.

- **EXAMINATION REPORT SEPARATE SHEET**
- 2.2 The problem addressed by the present application is to provide a mat produced at low cost and having good tear resistance, and therefore providing an unsupported rubber crumb border which is able to withstand the stresses experienced during normal usage.
 - The solution to this problem proposed in claim 1 of the present application is considered as involving an inventive step (Article 33(3) PCT) because there are no indications in D6 that would suggest to replace the backing therein employed by the crumb backing now claimed to solve the problem posed.
- 2.3 Claims 2-28 are dependent on claim 1 and as such also meet the requirements of the PCT with respect to novelty and inventive step.
- Present claims 1-28 comply with the requirements of Article 33(4) PCT (Industrial 3. applicability).